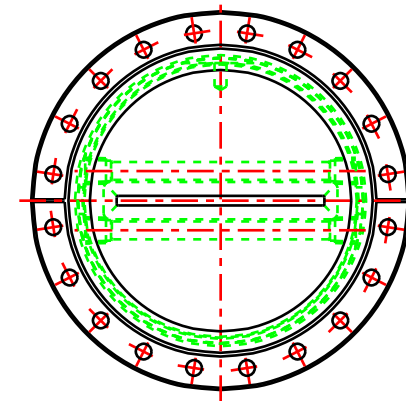
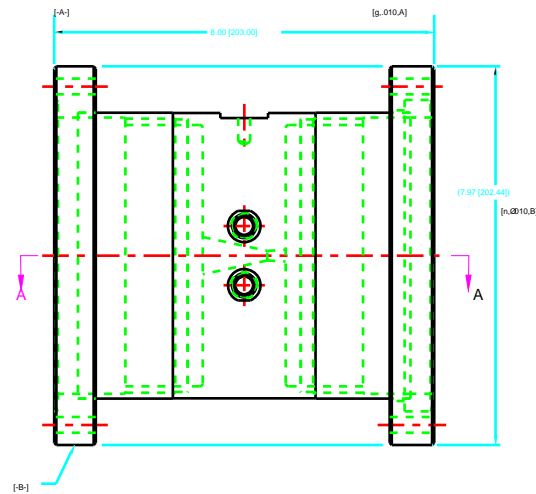
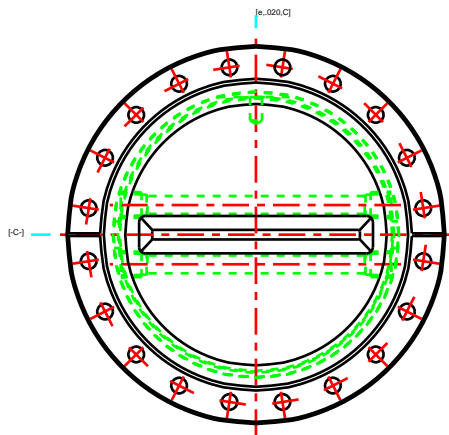


SECTION A-A



SOURCE

1 MDC VACUUM PRODUCTS CORP.
23842 CABOT BOULEVARD
HAYWARD, CA. 94545-1651
(510)-887-6100

NOTES:

3. THIS IS A UHV CHAMBER. A MULTIPLE STEP CLEANING PROCESS INVOLVING DEGREASING, WASHING AND DRY NITROGEN BLOWDOWN IS NEEDED BEFORE WELDING.
4. KEEP THE PART CLEAN, AND WRAP FOR UHV PACKING WITH ALUMINUM FOIL.
5. USING A MASS SPECTROMETER WITH MINIMUM SENSITIVITY FOR HELIUM OF 2×10^{-12} STANDARD CURRANT PER LEAK METER DIVISION, SUCH AS:
ALCATEL ASM-110TCL
RICHARDSON NGS 925 OR 936
VACUUM MS-9, MS-90 OR MS-18
DuPont CEC 24-120B
6. CALIBRATION OF THE LEAK DETECTOR SENSITIVITY SHALL BE PERFORMED JUST PRIOR TO TESTING.
7. FINAL TEST WILL CONSIST OF SURROUNDING THE CHAMBER (BAGGING) WITH HELIUM. THE CHAMBER WILL BE BAKED AT 150°C, 2% DEFLECTION IN THE MOST SENSITIVE RANGE OF THE LEAK DETECTOR IS SENSED WITHIN 1 MIN.
8. ALL DIMENSIONS WITH [] ARE IN MILLIMETERS.

[illegible]

ADVANCED PHOTON SOURCE
M3 BM FRONT END
THIRD FIXED MASK
CHAMBER WELDMENT